

RF Drone Detection System with 5KM Detection Range 300MHz-6GHz Full-Band Coverage and High Precision Direction Finding

Our Product Introduction

for more products please visit us on chinaantidrone.com

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CE, FCC, ISO9001
- Model Number: DF-04
- Minimum Order Quantity: 2
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: L/C,T/T
- Supply Ability: 1000units per month

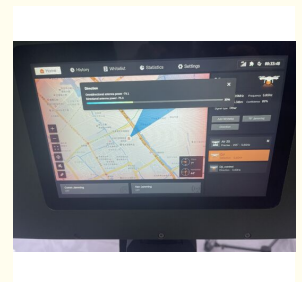


Product Specification

- Application: Public Places
- Feature: Remote Control
- Working System: Directional Antenna
- Working Band: 300MHz-6000MHz
- Range Of Radar: 3KM-5KM
- Effective Detection Range: 1KM-3KM
- Transmission Frequency Band: 9 Bands
- Elevation Coverage: 360°
- Azimuth Coverage: ≥90°
- Azimuth Accuracy: ≤1.0°
- Pitch Accuracy: ≤1.0°
- Power: 600W
- Highlight: High Precision RF Drone Detection System, Full-Band RF Drone Detection System, 5KM RF Drone Detection System



More Images



RF Drone Detection and Finding Directional System

Product Overview

2-in-1 integrated design combining drone detection and signal transmission in one portable unit for comprehensive defense solutions.

Key Features

Ultra-Long Operating Range: Maximum detection distance up to 5km; effective distance reaches 3km

300MHz-6GHz Full-Band Coverage: Covers mainstream drone frequency bands with full customization capabilities

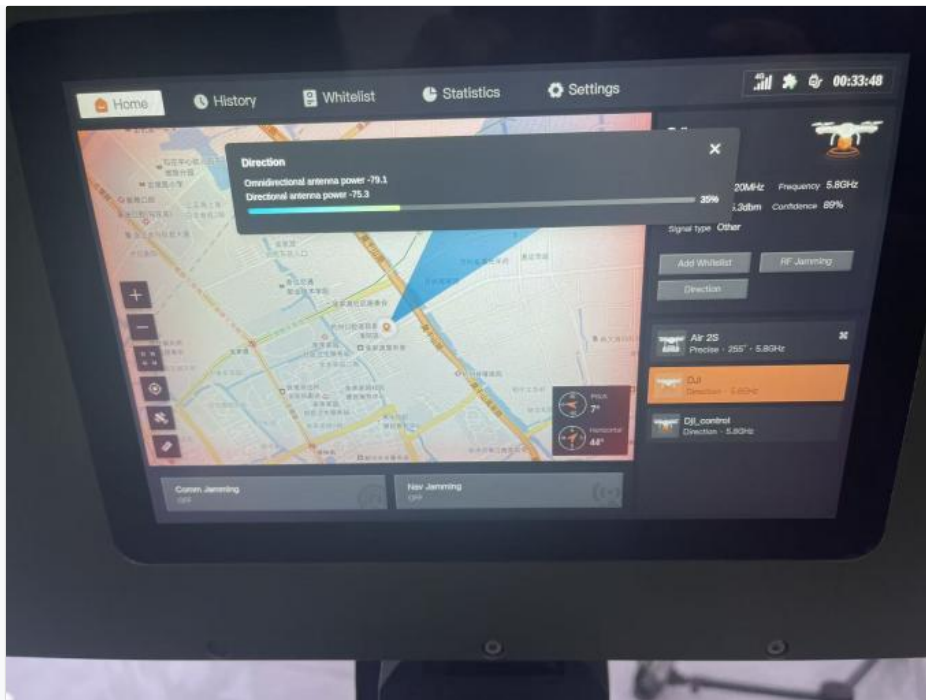
High Precision Direction Finding: $\leq 30^\circ$ for spectrum detection, $\leq 0.5^\circ$ for Drone ID recognition

Powerful Signal Analysis: Supports OcuSync protocol parsing; identifies drone model, serial number, and locations of both drone and pilot

Multi-Power Supply Options: Built-in battery with external backup battery and AC adapter for flexible power solutions

High Gain Directional Signal Transmission with 360° Turntable Coverage





Company Profile

Affiliated with the Institute of Internet of Things (IoT) under the Chinese Academy of Sciences, specializing in low-altitude security research with strong technological expertise.

R&D Team: Over 100 members including 120+ test engineers

Expertise: 1 academican of the Chinese Academy of Sciences, 17 Ph.D. holders, and 48 master's degree holders

Industry leadership in low-altitude radar, spectrum-based radio detection equipment, photoelectric camera tracking devices, and integrated systems.

Core Technology

Specializing in radio spectrum detection and low-altitude security, with radio frequency scanning feature identification and decoding as core technology. Critical breakthroughs achieved via intelligent unsupervised learning and UHDF (Ultra-High Dimensional Signal Feature Extraction) Technology.

Industry-Leading Performance:

- Full 70MHz-6GHz frequency coverage
- Detection sensitivity up to -110dBm
- Over 95% target recognition accuracy in complex settings
- Signal response time ≤3 seconds
- Clutter suppression rate above 90%

Capable of tracking and controlling multiple intruding drones simultaneously, accurately identifying all drone types including quadcopters, fixed-wing, DIY modified and FPV racing drones.

Global Partnerships

Key partners span across European nations including the United Kingdom and Spain, as well as the Middle East and South America. Our engineers provide uniquely tailored, cutting-edge technical support based on extensive hands-on experience with local conditions.



CAS INSTITUTE OF IoT (INTERNET OF THINGS)

AFFILIATED ENTERPRISE

★ FOCUS: LOW-ALTITUDE SECURITY RESEARCH



OUR TEAM

- R&D Team:
 >100 Members
- Test Engineers:
 >120
- CAS Academician
 1
- PhD Holders:
 17
- Master's Degree Holders: 48



CORE TECHNOLOGIES

— RADAR SYSTEMS —

- MIMO Microstrip Antenna Array (Drone Detection)
- Waveguide Slot Antennas + DBF (Digital Beamforming)
- Clutter Filter Algorithms (filters weather/birds/low-altitude clutter)

— SPECTRUM TECHNOLOGY —

- 70MHz - 8000MHz Broadband SDR (Tx/Rx)
- Self-Developed: Ultra-wideband Signal Sources + Power Amplifiers

— INTEGRATED SOLUTIONS —

- Omnidirectional + Directional Antenna Integration
- AI Photoelectric Camera Recognition & Tracking
- Custom Scenario-Tailored Solutions

GLOBAL PARTNERS

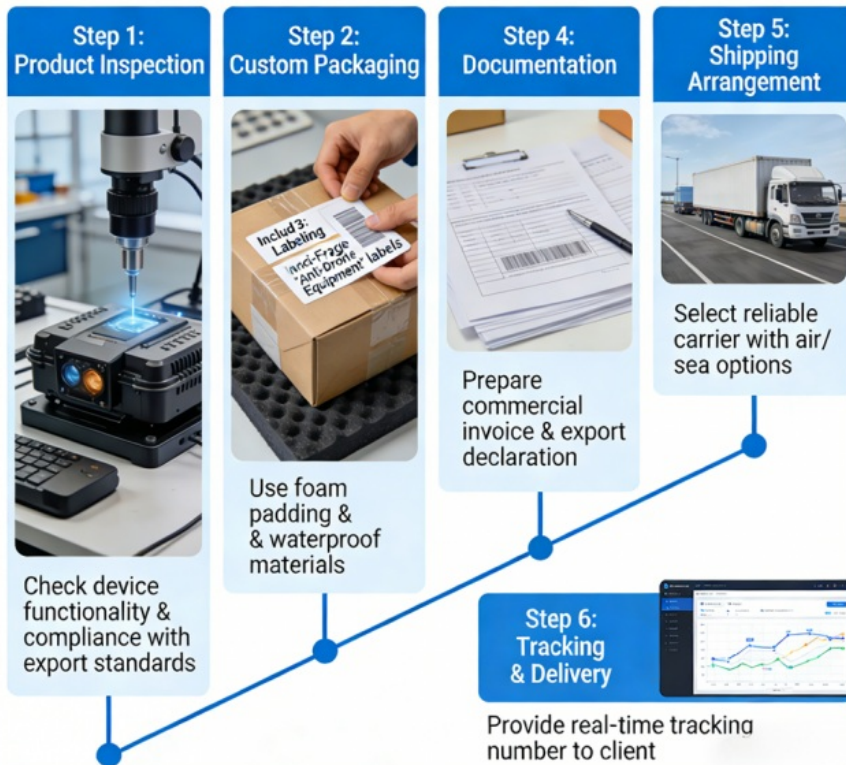
- Europe: UK, Spain
- Middle East
- South America

FIELD ENGINEERS:

Localized On-Site Technical Support (Tailored Customer Solutions)

Packaging & Shipping Specifications

Packaging & shipping specifications





Production Workflow

Core Competencies Overview

R&D & Design

Customizable core parameters (frequency, detection range, countermeasure mode); professional RF, algorithm & structural teams ensure stability in complex environments

Quality Control

IQC for incoming materials, IPQC for key processes; FQC includes full-function, environmental & EMC tests

Precision Manufacturing

SMT for RF modules, CNC antenna with VSWR test; parts meet IP65; automated lines produce 50+ units/day

Packaging & Logistics

Custom shockproof packaging, multiple logistics options with full tracking





Customization Capabilities

Customization Services

- **OEM/ODM Service:**

Full-process hosting; customers only need to provide requirements and relevant standards to get qualified

- **Sample Customization:**

3-7 days fast delivery; sample fee can be deducted from bulk orders (negotiable).

- **Bulk Customization:**

Flexible MOQ, 15-30 days delivery for bulk orders.

- **Packaging Customization:**

Multiple schemes available, suitable for overseas transportation and sales needs.

VIETNAM

Factory Profile

MYT TEC

We are committed to becoming a leading global intelligent security expert at home and abroad and an innovator in the field of counter-drones. MYTTEC is established by the R&D center of Internet of Chinese Academy of Sciences, Wisesoft Co.,Ltd, and the founding team. As the leading intelligent security expert,MYTTEC has served hundreds of customers at home and abroad. We have branches and offices in Beijing,Shenzhen,Jiangxi,Jilin,Jiangsu,Guangdong,Fujian,etc.

100⁺
Served domestic and foreign customers

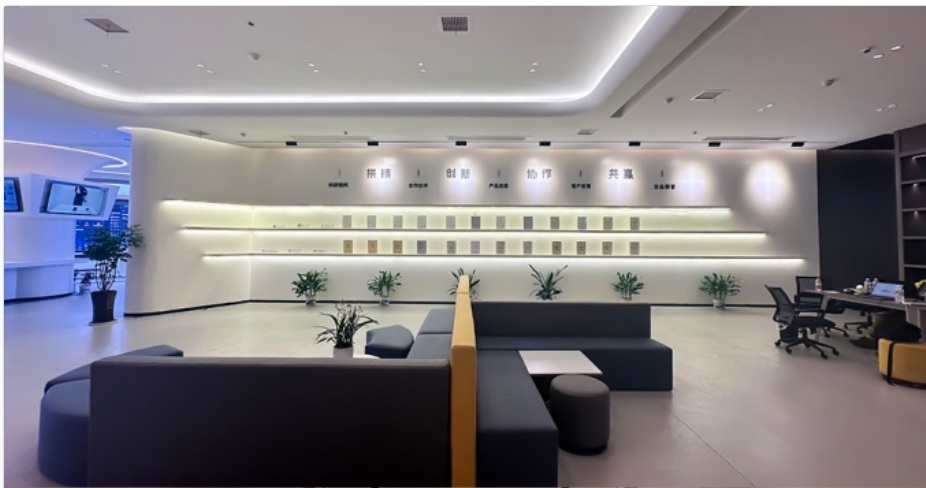
Relying on the strong scientific research capabilities of the Chinese Academy of Sciences and the industry experience of Wisesoft Co.,Ltd, MYTTEC focuses on innovation and R&D of three-dimensional security. We have over 80 patents and software copyrights. 8 products have passed the Ministry of Public Security certification.

80⁺
Patents and software copyrights

Core Technologies

To meet the specific needs of unattended ground sensing and unattended low-altitude defense in scenarios of complex geographical environment, harsh climate, and wild environment of weak network and electricity infrastructure, MYTTEC develops core technologies of Unsupervised-learning-based high dimensional features extraction, multi-source sensing, low power consumption, weak signal







Trade Show Participation



Chongqing Miao Yi Tang Technology Co., Ltd.

+8613101235550

gary@chinaantidrone.com

chinaantidrone.com

www.chinaantidrone.com